

US-PAT-NO: 6141568
DOCUMENT-IDENTIFIER: US 6141568 A
TITLE: Battery saving in portable radio apparatus

----- KWIC -----

Detailed Description Text - DETX (21):

As described above, according to the portable radio apparatus of the present invention, the presence or absence of any interrupt request generated based on the operation of any of the specified buttons such as the dialing buttons is checked at all times. If such an interrupt request is present, the portable radio apparatus understands or considers that the user is looking at the liquid crystal display section 2 while the user manipulates the buttons. The portable radio apparatus resultantly understands or considers that the use state information should be displayed to the user for any warning or announcement. If such an interrupt request is absent, the portable radio apparatus understands or considers that the user does not look at the picture of display section 2, or it is kept out of use, or it is waiting for receiving radio wave or under communication. In such a case, the liquid crystal display section and the backlight are turned off to save the electric power so that it is not wastefully used or it does not wastefully display any use state information.

US-PAT-NO: 6079025

DOCUMENT-IDENTIFIER: US 6079025 A

TITLE: System and method of computer
operating mode control for
power consumption reduction

----- KWIC -----

Brief Summary Text - BSTX (10):

Prior art attempts at conserving power have employed screen blanking which reduces the power to the display screen when the screen has not been used for some period of time. Typically, a timeout circuit senses changes in screen information and, if no change has occurred for a predetermined timeout period, the backlight to the screen is turned off for power reduction. While screen blanking is effective in reducing power for the display screen, no reduction results in power to the driver circuitry for the display, to the CPU, or to other parts of the computer. Furthermore, when the screen is blanked, the computer cannot be used until reset.

US-PAT-NO: 5854617

DOCUMENT-IDENTIFIER: US 5854617 A

TITLE: Circuit and a method for
controlling a backlight of a
liquid crystal display in a
portable computer

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Brief Summary Text - BSTX (11):

In order to improve the portability of the personal computers, it is necessary to minimize the power consumption of a display and to thereby prolong the service life of a battery, when the commercially available alternating current power supply is not provided. Conventional LCD displays such as disclosed, for example, in U.S. Pat. No. 5,056,357 for Data Processing Machine With Liquid Crystal Display And Control Means For Regulating Backlighting To The Display issued to Shiraishi et al., U.S. Pat. No. 5,247,286 for Display Control Device For Reducing Power Consumption Of Display Units issued to Ishikawa, and U.S. Pat. No. 5,313,225 for Liquid Crystal Display Device issued to Miyadera, incorporate power saving features which seek to automatically turn off the backlight of a LCD after a predetermined period in which the information is displayed has lapsed or the LCD display is left inoperative.

US-PAT-NO: 5589848
DOCUMENT-IDENTIFIER: US 5589848 A
TITLE: Electronic equipment having a display device

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Detailed Description Text - DETX (15):

In accordance with the present invention, the illumination lamp 6 is kept turned on or off before the processing is carried out, and the illumination lamp 6 is turned off during the execution of processing. When the processing result is displayed, the illumination lamp 6 is turned off if the turn-off indication is issued or when the predetermined time has elapsed since the display output has been extinguished. Accordingly, the power consumption of the battery 9 can be reduced.

Detailed Description Text - DETX (33):

In accordance with the present invention, the illumination lamp is automatically turned off except when the illumination of the display device is required, and the power consumption of the illumination power supply can be reduced. Further, in case of error such as input error or program error, a message is displayed on the display device and the illumination lamp is blinked to call attention of the operator.

L Number	Hits	Search Text	DB	Time stamp
1	1	(completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information) same (backlight\$3 or backlit\$3 or illuminat\$3) same (reduc\$4 or save or saving or saved) near5 power	USPAT	2003/06/26 00:27
2	61061	(complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information)	USPAT; US-PGPUB; JPO; DERWENT	2003/06/25 23:04
7	151	(completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information) same (reduc\$4 or save or saving or saved) near5 power	USPAT	2003/06/25 23:07
8	7	("5175870" "5193209" "5230084" "5594738" "6049532" "6049724" "6058289").PN.	USPAT	2003/06/25 23:21
9	0	6339713.URPN.	USPAT	2003/06/25 23:23
10	185	turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (reduc\$4 or save or saving or saved) near5 (power or energy)	USPAT	2003/06/26 00:27
11	53	("4279020" "4316247" "4317180" "4365290" "4381552" "4398192" "4463440" "4479191" "4509148" "4538231" "4545030" "4611289" "4667289" "4698748" "4766567" "4780843" "4809163" "4823292" "4835681" "4841440" "4881205" "4907183" "4922450" "4963769" "4968900" "4974180" "4980836" "4991129" "4996706" "5021679" "5025387" "5041964" "5083266" "5119377" "5123107" "5129091" "5151992" "5167024" "5175845" "5201059" "5218704" "5222239" "5239652" "5247164" "5247213" "5247655" "5249298" "5251320" "5339446" "5396635" "5404541" "5892959" "6079025").PN.	USPAT	2003/06/25 23:34
12	68	turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (screen or monitor or display) same (reduc\$4 or save or saving or saved) near5 (power or energy)	USPAT	2003/06/26 00:33
13	9	("5230055" "5396443" "5421018" "5548764" "5715464" "5822598" "5875345" "6032256" "6134667").PN.	USPAT	2003/06/25 23:46
14	4	("3877001" "4536761" "5881377" "5894580").PN.	USPAT	2003/06/26 00:04
27	16	(completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (reduc\$4 or save or saving or saved) near5 (power or energy))	USPAT	2003/06/26 00:34
28	7	(completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (screen or monitor or display) same (reduc\$4 or save or saving or saved) near5 (power or energy))	USPAT	2003/06/26 00:36

29	2	((completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (screen or monitor or display) same (reduc\$4 or save or saving or saved) near5 (power or energy))) not ((completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (reduc\$4 or save or saving or saved) near5 (power or energy)))	USPAT	2003/06/26 00:36
30	33	((receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (screen or monitor or display) same (reduc\$4 or save or saving or saved) near5 (power or energy)))	USPAT	2003/06/26 00:36
31	28	((receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (screen or monitor or display) same (reduc\$4 or save or saving or saved) near5 (power or energy))) not ((completion or complet\$3 or finish\$3 or end\$2) with (receiv\$3 or transmission or transmit\$4 or reception) near3 (data or information or message) and (turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or lighting) with (reduc\$4 or save or saving or saved) near5 (power or energy)))	USPAT	2003/06/26 00:36
32	3014	345/204,211,212.ccls. or 713/300,320-324.ccls.	USPAT	2003/06/26 00:45
33	270	345/102.ccls.	USPAT	2003/06/26 00:45